

vacuum and operating on the magnetron principle, comprising:

a vacuum-proof housing provided at one end thereof with a flanged opening for selectively admitting measuring gas;

a first cathode of substantially tubular configuration mounted in the housing adjacent the opening thereof;

a second cathode of substantially tubular configuration mounted in the chamber axially offset and electrically insulated from the first cathode; and

an elongated anode mounted in the housing substantially coaxially relative to and penetrating the first and second electrodes.

8. (New) The manometer of claim 7, further comprising means for electrically energizing the anode.

9. (New) The manometer of claim 8, wherein the means for electrically energizing the anode comprises a voltage source selectively switchable between alternating and constant voltage.

10. (New) The manometer of claim 9, further comprising means for switching the voltage source in response to the level of pressure within the housing.

11. (New) The manometer of claim 8, wherein in response to pressure in the housing in excess of  $10^{-2}$  Pa the anode is energized by alternating voltage.

12. (New) The manometer of claim 7, further comprising means for electrically energizing the first and second cathodes.

13. (New) The manometer of claim 12, wherein the first cathode is electrically grounded by the housing.